SERVICE INFORMATION LETTER

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OXYGEN - ATA CHAPTER 35

VENDOR CODE: 53655

TEST DATA SHEET FOR P/N 804044 Series Cylinder and Valve Assembly

1. BACKGROUND
   A. Component Maintenance Manual (CMM) 35-22-01 specifies the tests that must be passed in order to return a unit to service. This SIL provides a standardized form on which to record the results of the required functional tests. This form will be incorporated into the CMM at the next revision.
   B. You are authorized to copy the form on page 2. If you copy the form on page 2, you must copy all of the form.
   C. Use this form only for the AVOX Systems components printed on the form. Do not use this form for any other AVOX Systems components or for any components of another company.
2. EFFECTIVITY
   A. Aircraft
      The Test Data Sheets on page 2 can be used for all units whether removed from any aircraft or from spares inventory.
   B. This SIL applies to all P/N 804044 Series Cylinder and Valve Assemblies.
3. MATERIALS
   The only material required by this SIL is the Test Data Sheet on page 2.
4. ACCOMPLISHMENT OF SIL
   A. Make complete copies of the Test Data Sheet on page 2.
   B. Use a copy of the Test Data Sheet from page 2 to record the results of tests whenever a P/N 804044 Series Cylinder and Valve Assembly is tested.
5. TO CONTACT AVOX SYSTEMS:
   Use the contact information below to get a copy of a CMM or the revision status of a publication. Give the AVOX Systems part number and the aircraft model when you request a CMM copy.

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AVOX Systems

CMM 35-22-01
TEST DATA SHEET
804044 Series Cylinder and Valve Assembly

Tested by: _____ **Date:** _____ **Part Number:** _____

Inspected by: _____ **Date:** _____ **Serial Number:** _____

Refer to paragraph 2 in the CHECK section, paragraph 6 in the TESTING AND FAULT ISOLATION section, and paragraph 7 in the ASSEMBLY section of CMM 35-22-01.

2. Visual Inspection

Refer to the **CHECK** section for cylinder service life and the hydrostatic test frequency requirements. Check the condition of cylinder surfaces for heat or fire damage, dents, gouges, cracks, distortion, or thread damage. Verify that any parts that are no longer serviceable have been replaced.

☐ FAIL PASS ☐

6. Test Procedures

A. Internal Leakage Test

Perform an internal leakage test.

Inlet Pressure psig (MPa)	50 cc/min. Allowed Max.
1800 to 1850 (12.4 to 12.8)	☐ FAIL PASS ☐

6. Test Procedures

B. Open/Close Torque Test

Perform an open/close torque test three times.

Inlet Pressure psig (MPa)	Torque 30 in•lbs (3.4 N•m) Max.
1800 to 1850 (12.4 to 12.8)	☐ FAIL PASS ☐

6. Test Procedures

C. External Leakage Test

Perform an external leakage test.

Inlet Pressure psig (MPa)	Valve Handle Position	Duration (min.)	5 cc/hour (0.083 cc/min.) Allowed Max.
1800 to 1850 (12.4 to 12.8)	3 Turns Open	2.0	☐ FAIL PASS ☐
1800 to 1850 (12.4 to 12.8)	Fully Open	2.0	☐ FAIL PASS ☐

6. Test Procedures

D. Flow Test

Perform a flow test.

Inlet Pressure (psig (MPa)	Flow lpm	Observed Pressure 1000 psig (6.89 MPa) Minimum
1200 to 1250 (8.28 to 8.62)	1000	☐ FAIL PASS ☐

6. Valve Test Procedures

E. Pressure Gauge Accuracy Test

Check the accuracy of the cylinder gauge to the master gauge.

Inlet Pressure psig (MPa)	Observed Gauge Pressure Actual ±50 psig
1800 to 1900 (12.4 to 13.1)	☐ FAIL PASS ☐

NOTE: FLOWS ARE GIVEN FOR OXYGEN TEST GAS @ NTPD. APPLY THE APPROPRIATE CORRECTION FACTOR IF ANOTHER MEDIUM IS USED.

7. Valve Test Procedures

E. Latent Leak Test

With the valve outlet capped, and the valve in an open position, store the cylinder and valve assembly for a minimum of 48 hours. Repeat the external leak test.

Inlet Pressure psig (MPa)	After 48 hour Hold 5 cc/hour Allowed Max.
1800 to 1850 (12.4 to 12.8)	☐ FAIL PASS ☐